

**I CLAIM:**

1. A wheelchair docking system for releasably securing a wheelchair to the floor of a vehicular conveyance, comprising:  
support frame means adapted for rigid attachment to said wheelchair;  
5 docking shoe means, adapted for rigid attachment to either one of said support frame and said floor;  
anchor means, adapted for rigid attachment to the other of said support frame and said floor; and  
arm means adapted, when in operative position, for rigid mounting in a  
10 vertical plane on said anchor means and adapted for sliding and locking engagement in said docking shoe means.
2. A wheelchair docking system as claimed in claim 1, wherein said docking means includes spring loaded wedge means adapted to releasably lock said arm means in said docking shoe means.
- 15 3. A wheelchair docking means as claimed in claim 2 including pivotally mounted lever means, operatively connected to said spring loaded wedge means, and adapted to move said wedge means from a locked position to an unlocked position so as to release said arm means.
4. A wheelchair docking means as claimed in claim 3 wherein said lever  
20 means is manually operated.
5. A wheelchair docking system as claimed in claim 3 including powered means to operate said lever means.

6. A wheelchair docking system as claimed in claim 5 wherein said powered means comprises an electrically operated solenoid switch.
7. A wheelchair docking system as claimed in claim 1, wherein said docking shoe means is mounted on said floor of said vehicle and said anchor means is mounted on said support frame means on said wheelchair.
8. A wheelchair docking system as claimed in claim 1, wherein said docking shoe means is mounted on said support frame means on said wheelchair and said anchor means is mounted on said floor.
9. A wheelchair docking system as claimed in claim 1, wherein said anchor means comprises a second docking shoe means and said arm means is adapted, at each longitudinal end thereof, for releasable locking engagement with a respective one of said docking shoe and said second docking shoe.
10. A method for securing a wheelchair to the floor of a vehicular conveyance, comprising:
- rigidly attaching a support frame means to said wheelchair;
  - rigidly attaching a docking shoe means, to either one of said support frame and said floor;
  - rigidly attaching anchor means to the other of said support frame and said floor;
  - rigidly mounting arm means on said anchor means so that, when in operative position, said arm means lies in a substantially vertical plane;

and moving said wheelchair on said floor so as to vertically align said docking shoe and said anchor means one above the other and so that said docking arm moves into sliding and locking engagement in said docking shoe means.

- 5      11. A method as claimed in claim 10, wherein said docking shoe means includes locking means adapted to be manually releasable.
12. A method as claimed in claim 10, wherein said docking shoe means includes locking means adapted to be electrically releasable.